

Saransh Halwai

Roll No.:240001066

B.Tech - Computer Science Engineering

Indian Institute Of Technology Indore

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology Indore	8.25 (Current)	2024-Present
Senior Secondary	CBSE Board	96.2%	2024
Secondary	ICSE Board	97.2%	2022

EXPERIENCE

- **OPTIMAL Lab, Department of Mathematics** June 2025 - Present
Worked in Research projects under Prof. M. Tanveer IIT Indore
 - Studied various research papers on fine-tuning, hallucination detection and explainability
 - Contributed code on various experiments.

PROJECTS

- **IITbot - IITISoC Bronze winner** May 2025 - Jul 2025
IITISoC, IIT Indore GitHub
 - Made an online chatbot able to answer complex queries about the IITI campus
 - Comprised a RAG pipeline connected to an extensive multi-agentic system
 - Complete with a frontend and deployed by dockerising and hosted on Vercel and Render
 - Project awarded Bronze medal in AI/ML domain
- **CGanga Data Visualiser** Aug 2025 - Nov 2025
Prof. Aruna Tiwari, Department of Computer Science, IIT Indore GitHub
 - Commissioned by the IIT Kanpur CGanga Foundation.
 - Created a three-tier web app consisting of a frontend made using react and leaflet.js.
 - Backend was made using FastAPI and was capable of serving and ingesting GeoJSON data.
 - PostgreSQL was used along with PostGIS extension to store and query GeoJSON.
- **RL Co-learning** Jan & Feb 2025
Cynaptics Club, IIT Indore GitHub
 - Made a competitive pokemon game in which 2 teams of 4+ agents compete against each other.
 - Robust game configuration to allow variable number of teams and agents in each team.
 - Made a human-playable version for enthusiasts.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, JavaScript/TypeScript
- **ML & AI:** PyTorch, Transformers, scikit-learn, FAISS, Gymnasium
- **Full Stack & Systems:** FastAPI, Node.js, React, PostgreSQL, Redis, Docker, REST APIs
- **Data & Tools:** pandas, NumPy, Git, Linux, GCP

KEY COURSES TAKEN

- **Mathematics:** Linear Algebra, Calculus 1 & 2, Differential Equations 1 & 2, Complex Analysis, Discrete Mathematical Structures, Mathematics in AI/ML
- **Computer Science:** Computer Programming, Data Structures and Algorithms, Database and Information Systems, Logic Design

POSITIONS OF RESPONSIBILITY

- **Coordinator,** CSESA, IIT Indore Apr. 2025 - Present
- **Member,** Cynaptics Club, IIT Indore Feb. 2025 - present
- **Content Lead,** GDG IIT Indore Feb. 2025 - Present

ACHIEVEMENTS

- **2nd Runners up,** IITISoC, IIT Indore 2025
- **AIR 1330,** JEE Advanced 2024
- **AIR 2988,** JEE Mains 2024
- **Runners up,** Word wars, DebSoc, IIT Indore 2025